

HW_3

1. What is the purpose of the "Applied Steps" pane in Power Query?

It tracks every change made to the data

2. How do you remove duplicate rows in Power Query?

In the 'Home' Tab there is a 'Remove Duplicates' that keeps the first rows and deletes the duplicates

3. What does the "Filter" icon do in Power Query?

It helps to choose the specific rows you want

4. How would you rename a column from "CustID" to "CustomerID"?

Right click 'CustID' and choose 'Rename' option and change it to 'CustomerID'

5. What happens if you click "Close & Apply" in Power Query?

It saves all the changes and the cleaned data goes to Power BI

6. Remove all rows where Quantity is less than 2.

We can Filter the 'Quantity' column and uncheck values <2

7. Split the OrderDate column into separate "Year," "Month," and "Day" columns.

We can use 'Split Column' in the 'Home' tab or

Select OrderDate go to 'Transform' choose Date, Year, Month and day

8. Replace all "Mouse" entries in the Product column with "Computer Mouse."

Right Click 'Product' column then choose Replace Values --> Replace Mouse with Computer Mouse

9. Sort the table by OrderDate (newest first).

Click the OrderDate column then choose Sort Desc

10. How would you handle null values in the Price column?

I think we can replace null values with 0

Select 'Price' col choose Replace value option -> replace null with 0s

11. Write custom M-code to add a column calculating TotalSpent = Quantity * Price.

"TotalSpent" = Table.AddColumn(PreviousStep, "TotalSpent", each [Quantity] * [Price])

12. Group the table by CustID to show total spending per customer.

We can use 'Group By' and aggregation sum (quantity * Price)

13. Fix inconsistent date formats (e.g., 01/10/2023 vs. 2023-01-10) in OrderDate.

We can change the format to "date"

14. Create a conditional column: Label orders as "High Value" if Price > 100.

Click 'Add Column' -> 'Conditional' Column

If Price > 100 then 'High Value', else 'Regular'

15. Optimize the query to reduce refresh time (e.g., remove unused columns early).

We can remove Names or Emails if not used